#### PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN EMERGENCY TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 32 AND THE SHA MAINTENANCE FACILITY IN HOWARD COUNTY MD 32 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

#### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE UNTIL ACTUATED BY A PUSHBUTTON LOCATED IN THE SHA OR THE COUNTY MAINTENANCE FACILITY. WHEN ACTUATED, THE MD 32 SIGNAL INDICATIONS TURN RED AND THE MAINTENANCE FACILITY SIGNAL INDICATIONS TURN GREEN.

A HAZARD IDENTIFICATION BEACON WILL BE INSTALLED ON MD 32 FOR EACH APPROACH TO THE INTERSECTION.

#### CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN NEMA '6' BASE MOUNTED CABINET AT THE INTERSECTION.

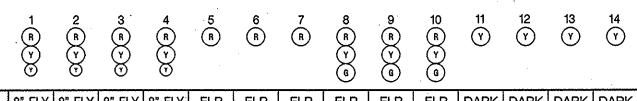
- 1. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.
- 2. FOR THE EXACT LOCATION OF THE PRE-EMPTION PUSHBUTTON IN THE SHA MAINTENANCE FACILITY CONTACT MR. MIKE JOHNSON, SHA RME AT (410) 531-5533.
- 3. FOR THE EXACT LOCATION OF THE PRE-EMPTION PUSHBUTTON IN THE COUNTY MAINTENANCE FACILITY CONTACT MR. WILLIAM MALONE AT (410) 313-7470.

## EQUIPMENT LIST "A"

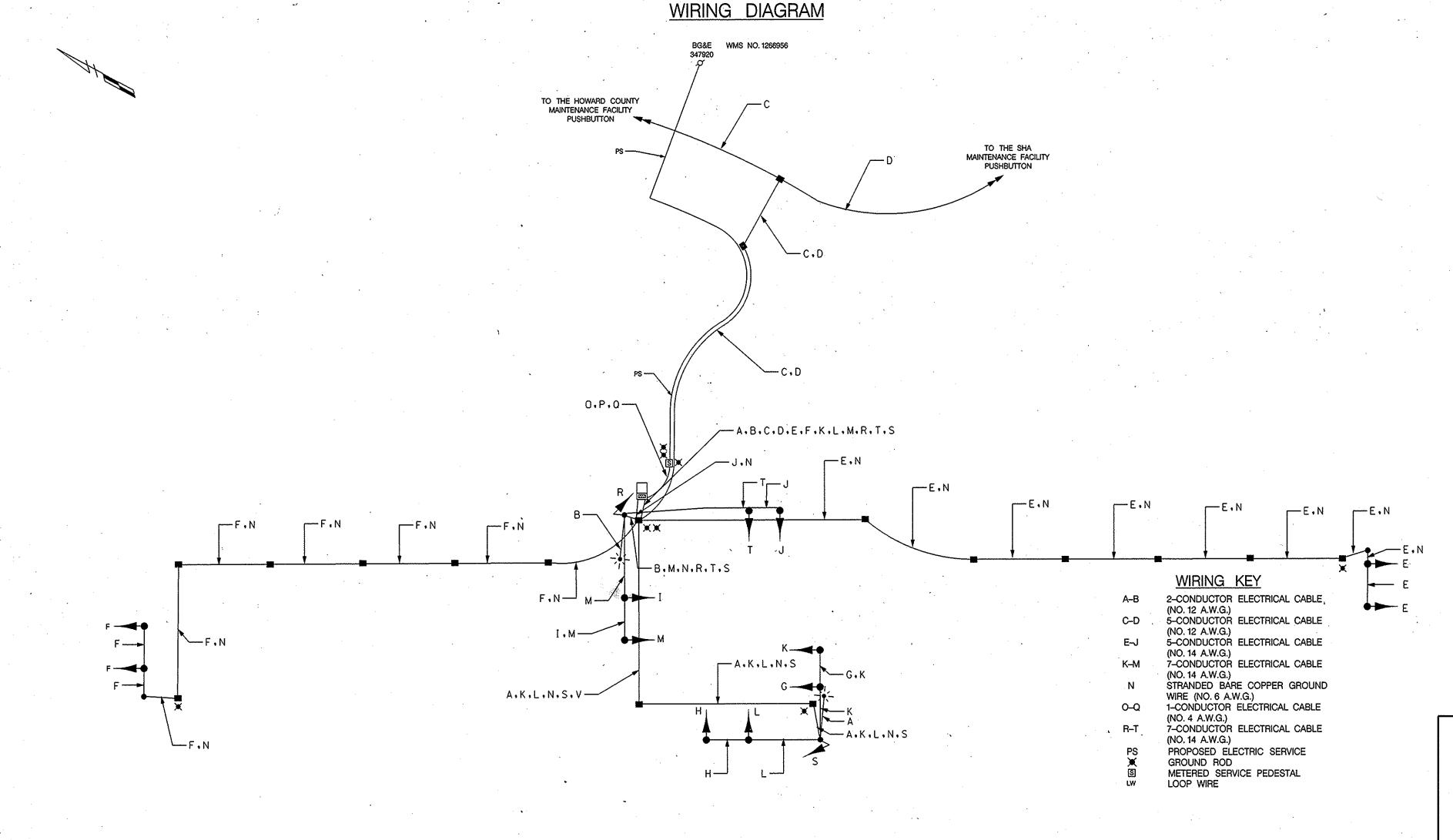
A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9044 9571	1 EA 144 SF	EIGHT- PHASE CONTROLLER IN A NEMA SIZE '6' BASE MOUNTED CABINET SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING:
	**************************************	2 EA - R10-13 SIGN (36 IN. X 24 IN.) - MAST ARM MOUNTED
*	•	2 EA - W3-3(2) SIGN (120 IN. X 60 IN.) - MAST ARM MOUNTED 2 EA - W3-3 SIGN (48 IN. X 48 IN.) - MAST ARM POLE MOUNTED

# PHASING CHART



NORMAL OPERATION	8" FLY	8" FLY	8" FLY	8" FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	1	<b>*</b>
PRE-EMPTION WARNING	12" FLY	12" FLY	12" FLY	12" FLY	R	R	R	R	R	R	DARK	DARK	DARK	DARK	`.  	<u> </u>
QUICK FLASH	FLR	FLR	FLR	FLR	R	R	R	Υ	Υ	Υ	FLY	FLY	FLY	FLY		
PRE-EMPTION 2	R	R	R	R	R	R	R	G	G	G	FLY	FLY	FLY	FLY		٠
CHANGE	R	R	R	R	R	R	R	Υ	Υ	Υ	FLY	FLY	FLY	FLY	٠,	, ,
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	<u> </u>	<b>*</b>



#### **EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR, ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

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ITEM NO.	<u>QUANTITY</u>	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2002	5 CY	TEST PIT EXCAVATION
5006	70 LF	FURNISH AND INSTALL 24 IN WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
6006	275 LF	TRAFFIC BARRIER W-BEAM
6008	2 EA	W-BEAM, TYPE "C" END TREATMENT
8001	18 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8035	1500 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 12 A.W.G.)
8039	2 EA	FURNISH AND INSTALL FIREHOUSE PRE-EMPTION BUTTON
8044	2160 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8050	460 LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8052	330 LF	FURNISH AND INSTALL 3 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8053	2800 LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8058	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
8059	1 EA	FURNISH AND INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT
8061	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
8067	_23 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8070	1"44SF	INSTALL OVERHEAD SIGN
8075	1 EA	FURNISH AND INSTALL 50 FT./50 FT. TWIN MAST ARMS AND POLE
8078	2 EA	FURNISH AND INSTALL 60 FT. MAST ARM AND POLE
8080	1 EA	FURNISH AND INSTALL 50FT/70 FT. TWIN MAST ARMS AND POLE
8084	2 EA	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE
8091	9 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN DIAMETER X 10 FT. LENGTH
8093	20 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8096	3 EA	CUT, CLEAN, AND CAP TRAFFIC SIGNAL STRUCTURE
8101	2200 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8102	940 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO.14 A.W.G.)
8103	310 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
8107	2 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
8112	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8114	4 EA	FURNISH AND INSTALL YELLOW LED SIGNAL HEAD FOR H.I.B.
8092	4 EA	FURNISH AND INSTALL 8 INCH VEHICULAR SIGNAL HEAD SECTION

#### **EQUIPMENT LIST "C"**

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

<u>QUANTITY</u> <u>ITEM NO.</u>

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

<u>DESCRIPTION</u>

### CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC (301) 624-8141

MR. DAVE COYNE ASSISTANT DISTRICT ENGINEER - MAINTENANCE

(301) 624-8106

MR. EUGENE BAILEY

(410) 787-7676

TEAM LEADER SIGN OPERATIONS

MR. ANDREA KREBS

(301) 624-8115

ASSISTANT DISTRICT ENGINEER - UTILITIES

# CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

INC.

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630

MR. ROBERT SNYDER

ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

# T<sub>RAFFIC</sub> C

325 Gambrills Road Suite E Gambrills, MD 21054

(410) 923-7101 FAX (410) 923-6473

EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MR. MARK LENTZ

WMS NO. 1266956

(410) 859-9054

BGE REPRESENTATIVE

### GENERAL INFORMATION PLAN MD 32 AND SHA MAINTENANCE FACILITY ENTRANCE

	T 74VDEI		HOWARD
DESIGNED BY	T. ZAYDEL	COUNTY _	HOWARD
DRAWN BY _	T. ZAYDEL	LOGMILE _	13003214.13
CHECKED BY _	K. SCHMID	T.I.M.S. NO	G 409
F.A.P. NO	N/A	TOD NO.	,